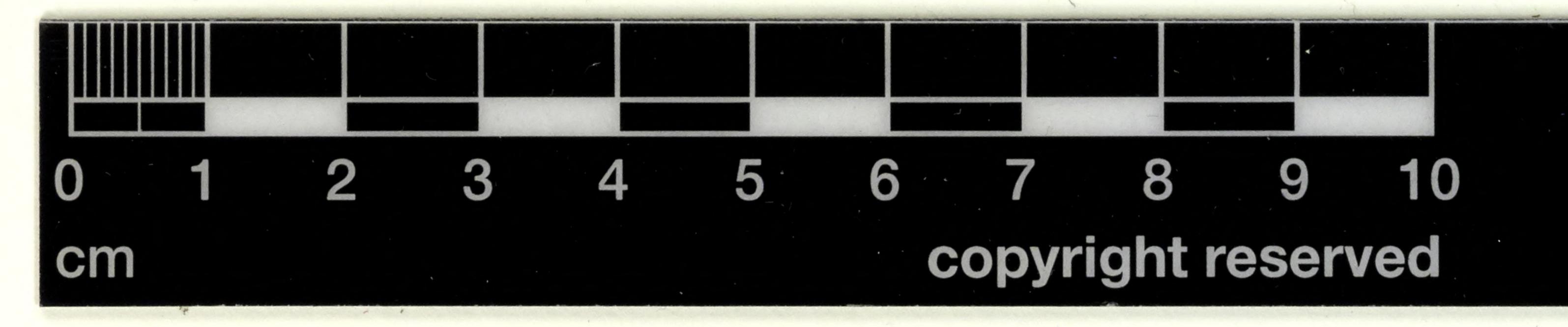
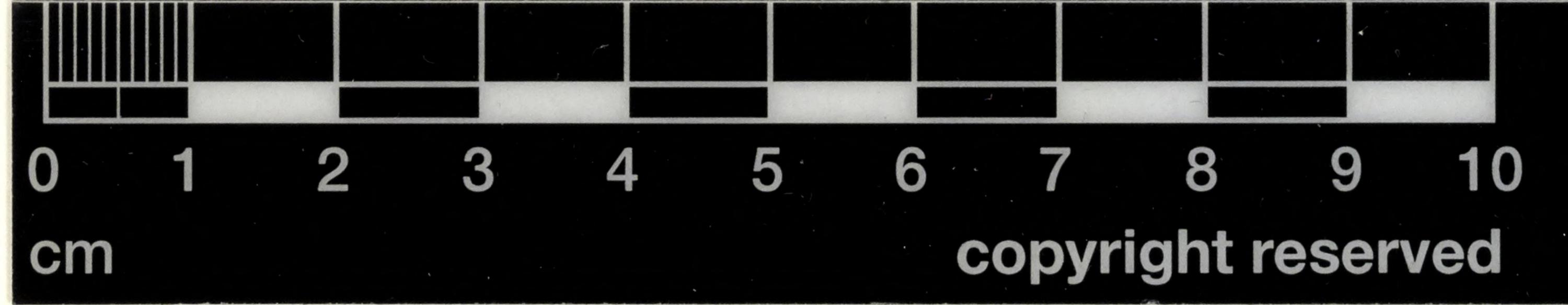


Buskleys Oaks in
Sporced. Phil Arad
1860 p 445



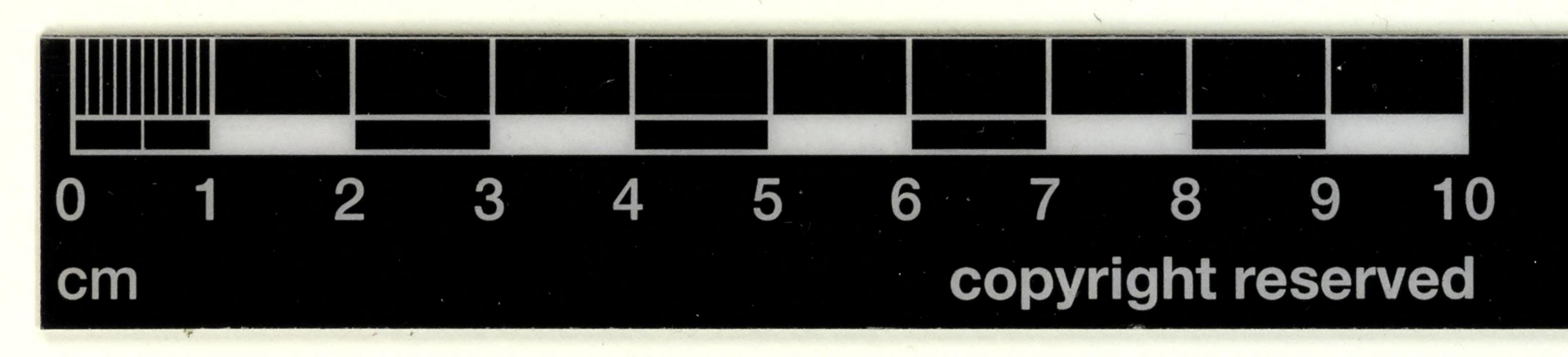


GEORGE ENGELMANN PAPERS Ny Moragani. ble sur kaue sur bete.



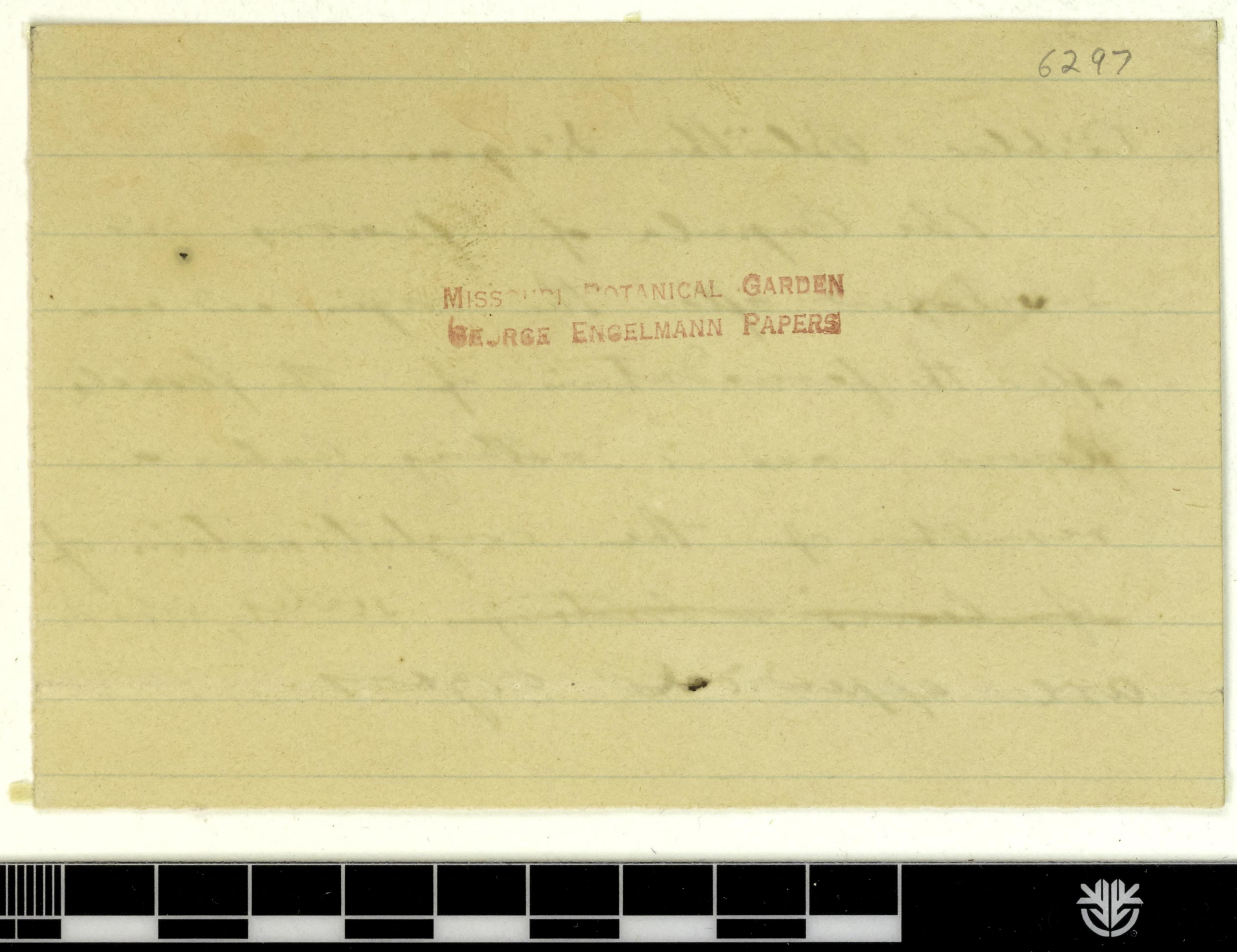


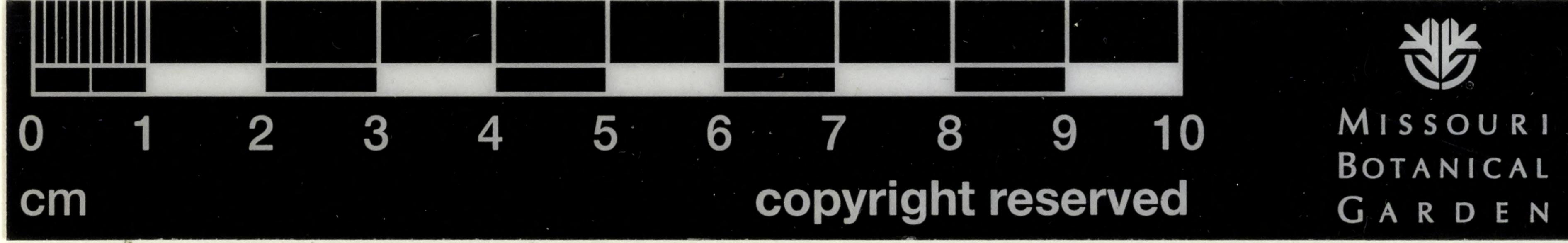
MISSOURI BOTANICAL GARDEN Gibber Blithen S'agramme The Capula of Juers depolloperd after the origin and even after the fernadution of the femile flower, and is nothing but a result of the conglittination of of lews for britis. scales, which are appendiale organs





BOTANICAL GARDEN





All Grand Tiland & Lake Champlain Hemphy Henden Flowen Chymnan Lingson John le Hanning. nott 200 - Odelle Wright 1867 Head of La, mores, July 1852 - 4-6 high a viren also common week of Lower Cross MISSOURI

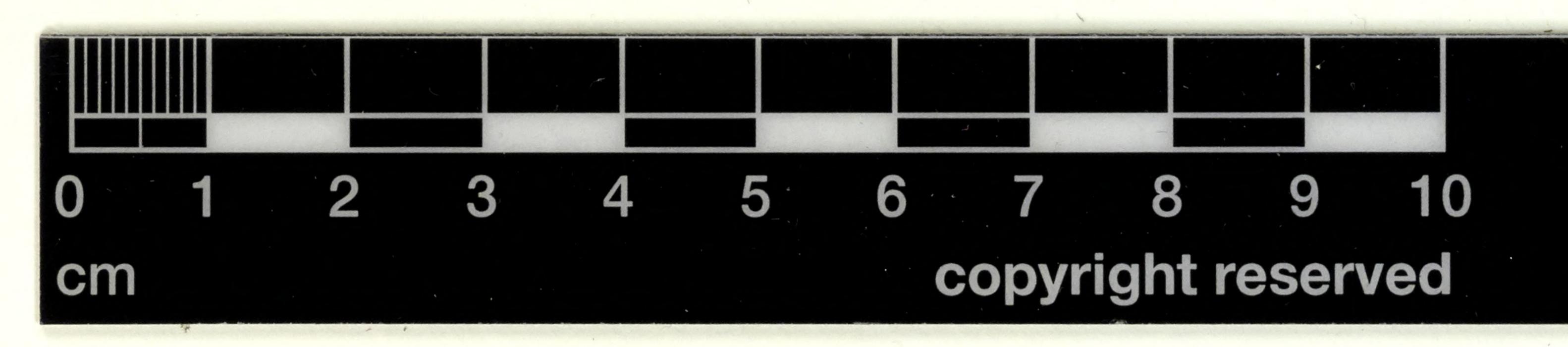
copyright reserved cm

GARDEN

Colonnade Hotel Philadelphia Sept 17. 1879.

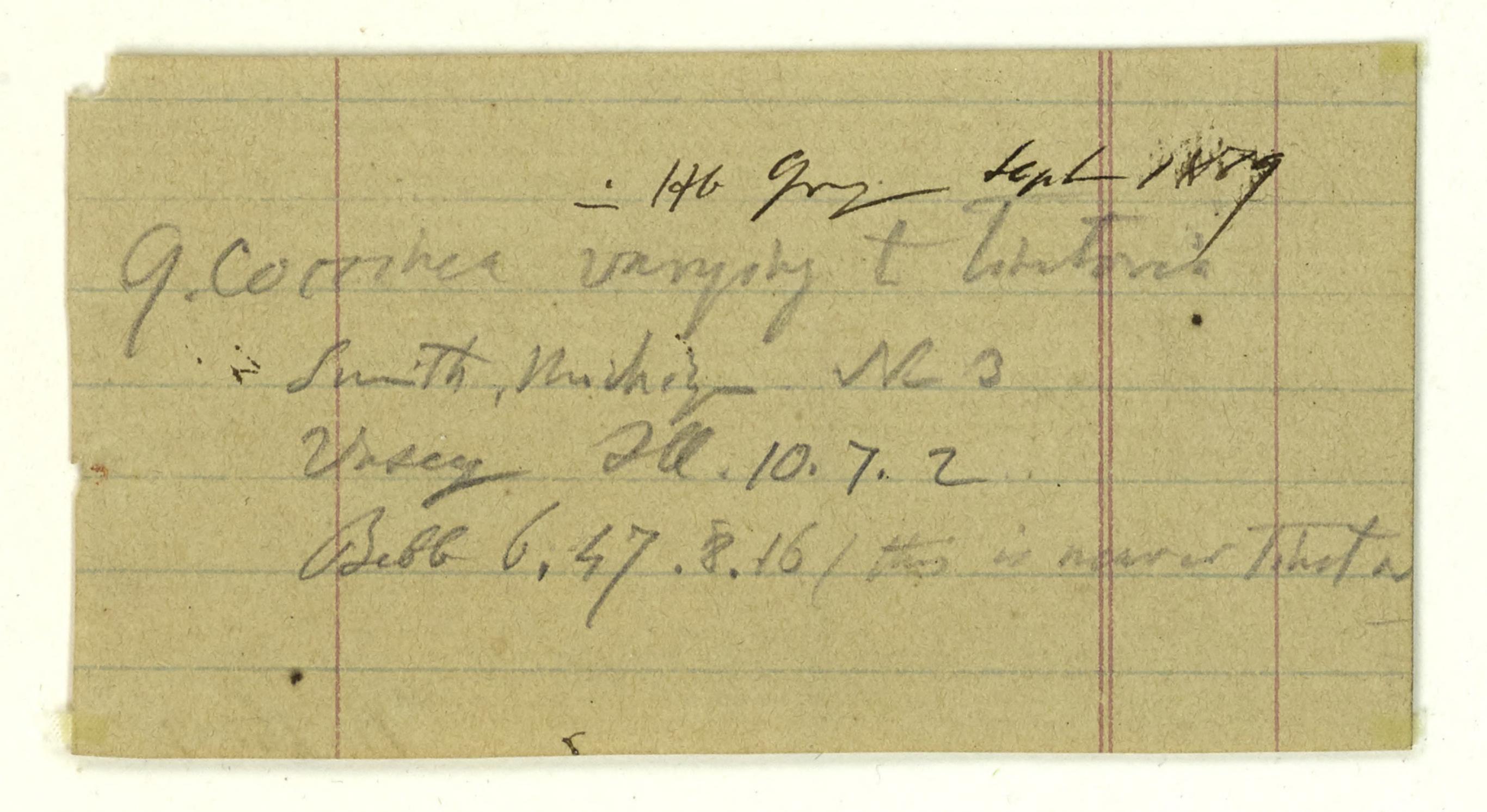
H. J. and G. R. Crump Dr.

MISSOURI BOTANICAL GARDEN GE RGE ENGELMANN PAPERS

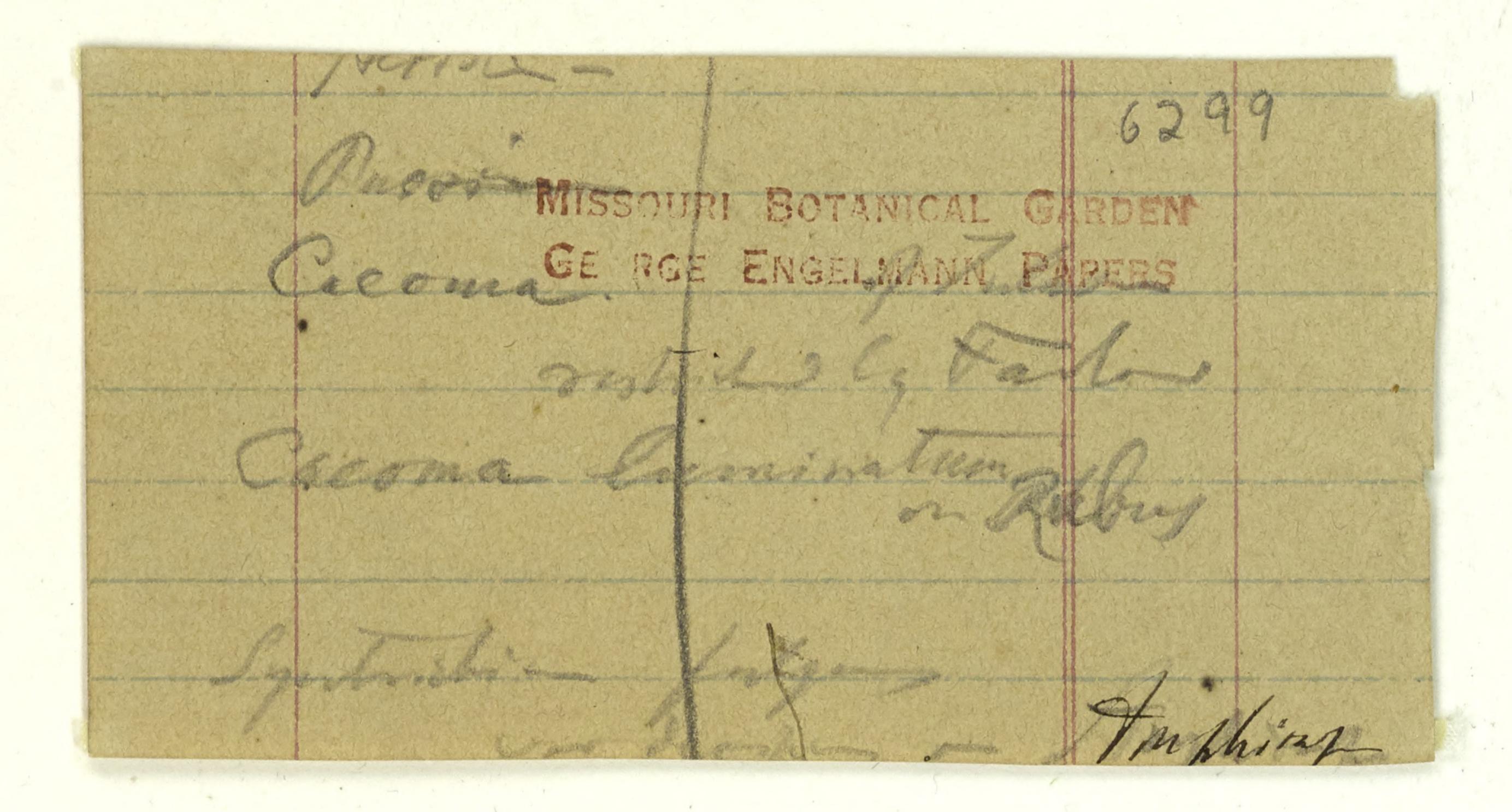


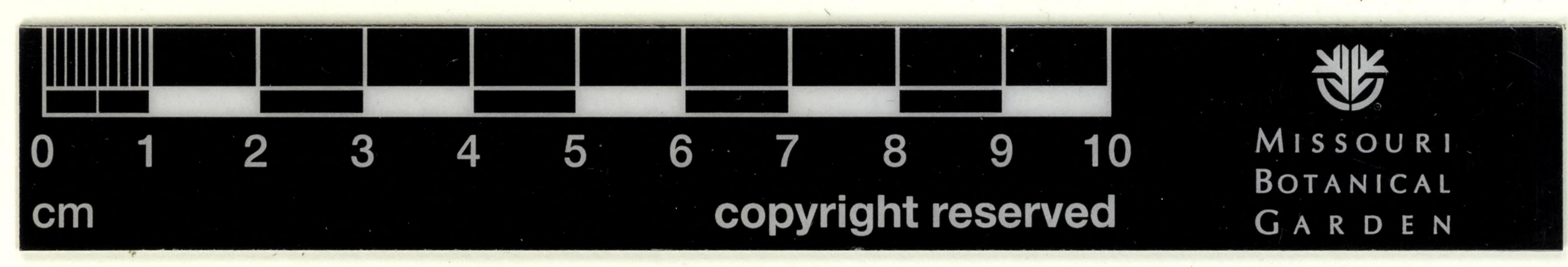


MISSOURI GARDEN









Wangenheim. 1. Beyting gun tentiche holggerechten Forst viscently die Anpflanzeg Nordenmoren, de Hogarten mit Anwalg auf tentiche Forste betreffe. von Friedrik Adam Julius von Ortragenheim Gretter 1727 Introduction p. XV. The quality of the wood of the Amiron Oaks is better in proportion as they grow further north. (Long attempt of ex planting this fast) p. 12. fig. 6 Greens alla Litt. m. 10.

p. 14 fig y G. rober Litt Mg. lenf figure very jour but he the arom is something very differe smill, posill, in a herenspherine fiz 7. 6. Cop: p.15 20ps: The aron i not much Caner the those of the german oak the cop is sorly, the acom obling, posted. The tree is sometimes conformed with the tarteloaks p 15. fig 8 9. Primes high Checked Cake figure of the winter to the promote the bound the first winter of the acount tolerable, size of acount of the acount tolerable, size of acount of " Vogeomme - New Jersey I the Selaware Combier." Bear Free hold, N.J. 1 is a large tree 40-50' high, 3-4' in diametes on misemble soil, with some Black oak [q: min] and Pinis Tred [?] It goods a sell on rich soil word but, after the whiteook. Back is the best for taning of any Same Oak, p. 44 fly 9 The salet out. The red virginian out, leaves string on both sides " The salet out tree" " The Small out True" Juenn Cerrinca, mihi. sette terminetti. Guerras foliorna vinabas oblasis; angulis acultis intermedia vix tribentatis, margine integerrino. Lin Sp. N. 1414 Host Cliffort 448. MISSOURI

BOTANICAL copyright reserved cm GARDEN 22 is similar to that of the white Pine and similar by used. The exsudation of the partially burnt true looses ets resinous qualities and aequires a sweetness similar to that of sugar or manna, (and is sometimes used as such whence The name of Lagar Kine . \*\* Wings of the large seeds minute, leaves entire or nearly so; comes subsessible, spreading Jerline d. GEORGE ENGELMANN PAPERS 3. I. flexilis, James. A true about bo feel high, and 3-5 feet thick with furrowed gray back, leaves 1/2-2 inches long, morely longer, would with a few stamets outh back, and were on the sides and usually very flew on the back, inche flowers in a short spike, oval 6-7 lines long, involvent xrales 8-9, anthers tipped by a spur or sometimes an incomplete crest i cones subservibe oral-6 sbrykjudir, 3-5 inches long, light brown, with somewhat squarron soules; seeds 4-6 lins long oval, comprened, the inconspirmous wing less than I like wide, usually remain. ing attached to the scale, cotyledons 6-2. - dong's Exp. 2.2%. Payelen Trans. Ac. St. Kowis 2.208. Mett. P. C. Let 112. Varlat. J. C. 403. Var. albiraulis. Atree of 40 or 50 feet, on the highest elevations low and shrubby, with very pale back, cones oval er subglobere, 1/2-3 inches long, 1/2-2/4 inches Thack,

0 1 2 3 4 5 6 7 8 9 10

Copyright reserved

MISSOURI

BOTANICAL

GARDEN


Wangenheim 2 This questation of Hord Oriford is fad TIT i Lii Sp. Ol. ed 3. 1764 ort 2 p. 1414 13.9 mer 9. mbn B. - The same is M ford : 1# at 1753 vol 2. p. 996 with the word intermedies inplace of intermedia. (Gtmt:) Nam fort sould color in settem, used i America ni Byland. A Loveit : warmer fat of North Amore, Carolin Mirjinin Manglane, nd symmen i Murfenzy at Vinneybourin as the Stile al sed oaks, in Nyrk as New lingher only spaningly. Balow the 40 your it seems to grav more rapilly them other speary. in 70 or 80 years it attacks a hight of as omny feel, and two feel is Nameter Bath i of their smooth, pele ( useifly) indefent for taming, wood redish course, frazile, splitting easily, not

0 1 2 3 4 5 6 7 8 9 10

Copyright reserved

GARDEN

MISSOURI
BOTANICAL
GARDEN



Wangenheim 3 durable, used principlly for Barrels wark de not hald spiritions ligues [geistreiche], for such if is to poros. int find mitenie per fuel a cool. - deaves kobust (von einem stærken Bestend wesen) Jack green on both sites smooth, shiring as if vernished Weins of the lower side Vscarled. From larger Than in the Book ook bronter above P.14 g. non: læg above sheirig, smooth, as if varnished; poles below " here I note that the description refers only to the leaves of fell grown trees, not of saplings p. 76. fig 10. Jum pelastis & Roi 2.268 the red water oak, swamp spanth oak leef very good: leaves resemble Those of the Scalet oak, by Those of

Those of

This figure of the arom is

Manyon of

Manyon ave only kref as large insomet. p.76 fig 11. Jum Phellos Li 1. m. Willow land oak ( ) x1. is good, leaf a arm coment. - hooming litter, not esta by p.77. fg 12. Juurns humilis, Palitis folio brevivre, Cetast. Come: 1.22 t, 22. (11) a sont i l'omnoglouine, - high I by Correlities, 15-20 fed bigh, 4-6 inches d'auto leaves only 1 who by; the smillest and I know. I do this a dwaf form of 9. Philler? at the g. humiling MISSOURI BOTANICAL

copyright reserved

GARDEN

cm

BOTANICAL copyright reserved cm GARDEN

Wangenhin 4 py 17. fig 13. Jum nom Li V Black ock, Jassefus-leaved oak. - "the younger trues ody excensuly in forma as size of leaves " 20 feel high show a little to long py. 78. fiz 14 gomes comente mihi on dong island, perhaps a form of the less. form of leaves seems to be constant. py 18. fg. 15. Juns stellate miki Stellete oak, with ouncete leaves, swild in 5 or 6 armete lobes – folis gurgeldis linis (inis) irriginis or reteris amanginatis stelliformibus denne gand, but avon met relieble, too toy! a pedmele. -Stellate he Rames it not for the elettete hair, but for the supposed resembles of the leave, with a stor radiality star SS or nother miller over. py 79. fz 16. The common north Amer Black Oak; Champain Egnen! Champlain? Black Oak. govers night, polis comiponitus, obsolete trilobis Lin 1.04.1413 no 8 / This is a wrong quotation, shith evidently refers to our pres 1 nign - see above fij 13. Rapid growth, off so-bo feet byh - 2 feet hiem. not as large - the ord or write oak - back Ink, blackish i gog tres smooth, - older ome fissund, wood poor MISSOURI

BOTANICAL copyright reserved cm GARDEN

allitude, esperially on the eastern slope of the Siemas, shere it is apt to grow in the most and localities, extending into Oregon. The thord form is found throughout the Morty Merintains . - A mugnifical tree known throughout the west as the Gellow Pine,
the Sugar Pine
Bush vies with P. Lambertiana and the Lequorias, with very thick back ( Carge trees 3-4 inches that ) and an unusual thick ness of Jap wood, shows 100-200 rings, before it turns into head wood; the latter is yellow, heavy and very pulchy. Var. Jefreyi hus flen ban considered as a distinct species and interns connecting forms are not rare, one of these is I! deflexa Tom Box. Mrx. Bound. 200 tab. 56. 4 The rows of stometa are often, but by no means always, more distant from one another in Jeffreyi then in the typical prondenssa. He leaves but like purist about 3 years and are Therefore along, found at the sad of the branklet, except in your shoots. The pavenchy westered ductor of all the forms are generally very small, and are along stringtheming cells, sich surround with some, often with many are els fant dritheis the sheath. MISSOURI BOTANICAL GARDEN CONGELMANN PAPERS The systematic bottomist is at a low to whom to refer as the author of their as well as some other Californian Comfers; the name appeared first in an anonymous sheet, "the Oregon Committee, Report" which are definibiled to subscribers together with the seeds of Jefrey's collection. Inthe Edinburg new philos. Journal.

0 1 2 3 4 5 6 7 8 9 10

Copyright reserved

MISSOURI

BOTANICAL

GARDEN

Wangenheim 5 Craves 6 inter las, veg varieble to vi fig. 16 below dull, above the green, shiring moste a 3 lobed. Size flore, al fleafemake it probable that this is our g. Lintoni, but the shape fleef vry warme. H can ast well be 9. mjena! From from the 40 "Lynne so the ward more comme than utternt. p. 19 fig. 17 garon illivi folia : plis muniformiles 3-5- Catin aoutis, set. ferminatis, sully albiris, omnites religions speriler multo under. Mihi Druf Ammon Ost. Sandy plans of Long the (In suit the fand in other land this) MISSOURI BOTANICAL

copyright reserved cm GARDEN

garely 5 inches long, 1/2-2 inches thick of a rich brown colour, sessile or subsessile, spreading or slightly recurred, 3-5 olustered together, unto high, with stought straight or incurred prickles seed from blines long, wing 10-12 lines long widest.

Above the middle, cotyledows 6-9 - Loud. Arboret. 4. 2243 Harley Eid. n. phil for. 1855. 2x6 St. Croig an a it is not them. ib. lam. ib. land a more rounded top, finer split and darker bank, peler leaves, 4-9 inches long, male flowers 1/4 inches/long, comes larger 5-12 indus long, lighter brown on sport pedienles, fewer in a cluster with a thinner aposphysis and sleader prikles hooked beek ways. seeds 4-7 lines long, wind 12-13 lines log, widest above the middle; colyledops 7-11 - Peffreyi, Murr Heteron Clifton - Esial ne Shilos. Journ. 11, 224 t. 8.9. Farlat. C. 393 skoter Var. B. Scopulgrum, Free 180-100 seek ) top leaves 13-5 or 6 inches long follen in pairs, male glowers shorter (1 inh long comes sepeller, 2-3, rarely 4 inches by grayish brown, with stout prickles; seeds 2/2-3/2 lines, wing 9-12 lines, Pronderofsa of the Rocky Mountain Floras. The widest spread western pine: the original forme in California and Oregon at low and high altitudes and even in the plains, often allied with I. Landestein and Abies convolor, ver Jeffregi usuelly on mountain above 5000 fal

MISSOURI BOTANICAL copyright reserved cm GARDEN

brozenhuis 6 a good representation of the the speries, - fruit and leaf p. 80 fig. 18. Jumm uligstora folis muniformites stateging.
oblissis, autire lobo productione Miki Black with oak Gally to the 40 " Jugare partly one ? on low wet boulilies near the Deavourd - 20-25 feet high it food sind bak dak, blacket, word lyse poor Rangher No Juny (about Leves) And green tolow Ditit thich. [ con the Ge helenphylle? Jeb Port. p. 68 plans it with gamed agent in wash is pully comet, as aron J. alle 9. 2mbm 2. 9.00 m = g. commen ling 9. polenting de Roi 9. Philles den 9. humilis atist. 1 tome 9. mins g. myn Li - g. ament lang = 9. stellate way. 9. nign Li [moules 9. toutonie Bate ] ag ilivifelie way. - 9. uligsborn wang I pukap 9. hetersplyth Batrans truly Thisat 1791. i at robusti p. XVI. The gigantin Black Oak - f glitters

transforming of Usy incia and Runaryluming to From alle to ...

1. 474 - This was well compose these proofs of Jums forming alle to ...

1. 335 9 timberia att onto Many of georgia

1. 80. fg 55. Fagus American Wary 1787. Fagus farmy am Ail. 1789 a double sprofit name, Thompson more a plance time name! MISSOURI BOTANICAL copyright reserved

GARDEN

cm



fall of comes when only 2 or 3 feet bigh (Brewen). The name

or curriber? mbe & compre 10 meron engle hemaple 24 alla x ilella la 27 alla y marra min

0 1 2 3 4 5 6 7 8 9 10 cm copyright reserved

MISSOURI BOTANICAL GARDEN

0 1 2 3 4 5 6 7 8 9 10 cm copyright reserved

MISSOURI BOTANICAL GARDEN

Genzon Bowns Collector; L. No 1 San Luis Obispo. Nov 25 18 60 19 gm Los Angeles Dur 31 1860 San gibriel Dan 1861 sam Correity 19 gunn loggiglande ? 124 Abies (orly Confer except Dipers) seen on 2 feet d'am. " Doughi"?] summit of nize - 20-80 haly 467. April 22 1861 Zong & the top of Sente Lucia 761 Ing 19 - New Josia 838 Lept 25 mh Distless 85-8 Moring Little Geysen, 895- Marshy 1862 between Mission, Dolory It sea 960 kondom Apy 18' ist May 7 Month Diable quinn Hirdri "at marsh's now Mh Dirble 12- rofeel risrefer one of 17.5 fed overfour 260 rings (unverticin) - limbs Irroping

1252 Jun 11 the Common Mountain White oak flings gleurous - bluich, leaves generally

much maller than in this specimen 1286 Juan 20 gums fulossom? a for a tree Un feet or feet or from \_\_ trees branch low buch ship with the blue Green of G. Ganyaw [Sough 9. agrifolia gog lives pubound - now (June 19) putting forth a second growth

MISSOURI BOTANICAL copyright reserved GARDEN

References to Notes on Coniferant Vol. VI Centinaed a these. Pflexiles = Pallrowhis Lub. 2196 · 2803 is the seminisch thereis the proposencia con: 11 2/8/ 212193 1 2 199 P. Seffreyi is the lay - comed for 0 2 2 0 0 220) l. Bolpverran is a 5-leaned kuns Bul, 2208 frund in 860 Frenn Nevaden, los, 10e 1111 mund Charle dan in l'elambertians - in to latitude of berent is Sul. 2780 ment commat at about 2782 806, 2799 8 ovo 11. -28-0/ Salw confundas Etts 2-lois. 28-03

MISSOURI BOTANICAL copyright reserved GARDEN cm